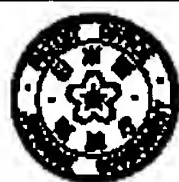


(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10176967 A**

(43) Date of publication of application: **30.06.98**

(51) Int. Cl.

**G01L 3/14**  
**B62M 23/02**

(21) Application number: **09283050**

(22) Date of filing: **29.09.97**

(30) Priority: **17.10.96 JP 08297208**

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**(54) LOAD DETECTING APPARATUS FOR  
ELECTRICALLY-ASSISTED BICYCLE**

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain an electrically-assisted bicycle in which the structure of a load sensor used to detect a period requiring electric assistance is made simple and small and in which the detecting accuracy of the sensor is increased.

SOLUTION: In an electrically-assisted bicycle, a foot-treading human-power driving system A and an auxiliary driving system B by a motor 21 are installed side by side. In the electrically-assisted bicycle, a slight gap is formed between a pedal-treading crankshaft and its bearing hole, the pedal-treading crankshaft is pressed to one side of the bearing hole by using a spring, and a detector is installed in such a way that it detects the displacement of the spring in a driving operation. When a force used to tread a foot-treading pedal is at a prescribed value or higher, a signal which asks electric assistance is issued.

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